

WHAT IS CLAIMED IS:

1. A computer system in which one or more operation sites
and a site having a storage device subsystem are mutually
5 connected through a network, wherein:

said operation site includes a copy management program
that operates in a host, and copy management information;

said copy management information includes state
information that is used by the copy management program to
10 execute a remote copy; and

said copy management information is stored in a storage
device of a storage device subsystem included in this computer
system, and is updated every time a remote copy is executed.

2. A computer system according to Claim 1, wherein:
15 when the operation site fails, the copy management
information stored in the storage device of the storage device
subsystem included in each site is referred by use of a copy
management program that operates in a host included in another
operatable site to execute copying from a point to which the
20 copy processing has progressed before the failure.

3. A computer system according to Claim 1, wherein:
said storage device subsystem can make an inter-
subsystem copy of data stored in a storage device between the
storage device subsystems, and can also make an intra-subsystem
25 copy of data stored in a storage device in the storage device

subsystem.

4. A computer system according to Claim 1, wherein:
said copy management information includes state
information about the inter-subsystem copy, state information
5 about the intra-subsystem copy, and time stamp information about
the time at which this copy management information is written.

5. A computer system according to Claim 1, wherein:
said copy management information is stored in a storage
device of a storage device subsystem in each site included in
10 this computer system.

6. A failure recovery method for a computer system in
which one or more operation sites and a site having a storage
device subsystem are mutually connected through a network, said
failure recovery method comprising the steps of:

15 using, by the operation site, a copy management program,
which operates in a host, to remote-copy data stored in a storage
device of a storage device subsystem included in the operation
site to a storage device of a storage device subsystem included
in each of the other sites;

20 every time copy processing is performed, reflecting, by
the operation site, a state of the remote copy in copy management
information stored in the storage device of the storage device
subsystem included in the operation site; and

every time copy processing is performed, reflecting, by
25 each of the other operation sites, a state of the remote copy

in copy management information stored in the storage device of the storage device subsystem included in said each of the other operation site.

7. A failure recovery method for a computer system
5 according to Claim 6, wherein:

when the operation site fails, the copy management information stored in the storage device of the storage device subsystem included in each site is referred by use of a copy management program that operates in a host included in another
10 operatable site to execute copying from a point to which the copy processing has progressed before the failure.

8. A failure recovery method for a computer system according to Claim 6, wherein:

said step of remote-copying from the operation site
15 comprises inter-subsystem copying of data in a storage device which is performed between the storage device subsystems, and intra-subsystem copying of data in a storage device which is performed in the storage device subsystem; and

said copy management information includes state
20 information about each of the inter-subsystem copy and the intra-subsystem copy.

9. A computer system in which one or more production sites, and a local site consisting of only a storage device subsystem, or a remote site including a host and a storage device subsystem
25 which are connected to each other, are connected through a

network, wherein:

said production site comprises a host and a storage device subsystem;

a disk unit of the storage device subsystem stores a copy
5 management program and copy management information;

said copy management information includes state information corresponding to each processing of a remote copy, said state information being used by the copy management program to execute the remote copy;

10 said copy management information is also kept in a storage device subsystem included in the local site or in a storage device subsystem included in the remote site;

when making a remote copy from a storage device subsystem in this computer system by use of the copy management program,
15 a host included in the production site updates copy management information for each processing of the remote copy by synchronizing copy management information included in the local site or the remote site with copy management information in the production site; and

20 when the production site fails, the copy management information stored in the storage device of the storage device subsystem included in the local site or in the remote site is referred by use of a copy management program that operates in a host included in another production site to execute copying
25 from a point to which the copy processing has progressed before

the failure.